April 10, 2006

## **VIA CERTIFIED MAIL**

Mary Logan U S EPA Region V (SR-6J) 77 W Jackson Boulevard Chicago, IL 60604-3590

**RUTGERS Organics Corporation** 

GERS

Sheila Abraham
Ohio EPA - NE District Office
Div Of Emergency & Remedial Response
2110 East Aurora Road
Twinsburg, OH 44087

Remedial Response Section Manager Ohio EPA - DERR P O. Box 1049 Lazarus Government Center Office 122 South Front Street Columbus, OH 43216-1049

Re: MARCH 2006 MONTHLY REPORT

RI/FS & REMOVAL ACTION NEASE CHEMICAL SITE

SALEM, OHIO

In accordance with Paragraph X E of the Administrative Order by Consent regarding a Remedial Investigation/Feasibility Study (RI/FS) of the Nease Chemical Site in Salem, Ohio, attached is a copy of the March 2006 RI/FS Progress Report

Additionally, in accordance with Paragraph 14 of the Administrative Order by Consent, signed November 17, 1993, attached is a copy of the March 2006 Removal Action Progress Report

Please contact us if you have any questions regarding activities discussed in these reports

Sincerely,

Dr. Rainer F. Domalski Site Coordinator

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**Enclosures** 

cc M. Hardy – Thompson Hine Steve Finn – Golder Associates, Inc

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201 Struble Road State College, PA 16801

Phone 814-238-2424 Fax 814-238-1567 web-site http RUETGERS-ORGANICS-CORPCOM

Member of the RUTGERS Chemicals Group



# NEASE CHEMICAL SITE, SALEM, OHIO REMEDIAL INVESTIGATION/FEASIBILITY STUDY MONTHLY PROGRESS REPORT MARCH 2006

#### 1.0 INTRODUCTION

This progress report has been prepared in accordance with Paragraph XE of the Administrative Order of Consent regarding a Remedial Investigation/Feasibility Study of the Nease Chemical Site in Salem, Ohio. The report summarizes the major RI/FS actions during the month along with investigation results and any problems encountered in the project. Activities planned for next month are also presented.

#### 2.0 SUMMARY OF ACTIVITIES PERFORMED

#### 2.1 PROJECT ACTIVITY SUMMARY

The activities that were initiated and/or completed during the month are described. All activities were performed in accordance with the detailed protocol provided in the approved Work Plan.

2.2 FIELDWORK

None

2.3 REPORTS

## 2.3.1 REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

The final Record of Decision for Operational Unit #2 (onsite) was signed by the agency on September 29, 2005. The agency submitted a draft Administrative Order of Consent (AOC) for the pre-design investigation and design of the remedial action to ROC at the beginning of January 2006. ROC made a good faith offer to negotiate the AOC with the agency.

In preparation of the upcoming Feasibility Study (FS) for OU-3 (Feeder Creek, MFLBC), the agencies and ROC agreed on additional sampling in the MFLBC including sediment, fish, surface water and flood plain soil to have a sufficient data base for the study. The first step, the reconnaissance of sediment bodies in the MFLBC, was performed from August 1 through 15, 2005. Sediment and fish samples were taken in the week of October 10, 2005, the surface water samples in the last October week. The analytical results of the samples taken were validated by the ROC's technical consultant and submitted to the agencies. Sampling locations for the flood plain soil were determined. Ohio EPA contacted the property owners at these locations and informed them the upcoming event. ROC has obtained an access agreement with the owners

2.4 MEETINGS

None.

3.0 VARIATIONS FROM THE APPROVED RI/FS WORK PLAN

None

4.0 RESULTS OF SAMPLING, TESTS AND ANALYSES

None

## 5.0 PROJECT SCHEDULE

The current Work Plan schedule identifies completion and target dates for project activities. Those scheduled to occur over the next several months include:

Feasibility Study OU-3 (Feeder Creek, Middle Fork of Little Beaver Creek)

## 6.0 DIFFICULTIES ENCOUNTERED AND ACTION TAKEN TO RESOLVE PROBLEMS

No significant difficulties were encountered.

## 7.0 PERSONNEL CHANGES

None

## 8.0 ANTICIPATED PROJECT ACTIVITIES FOR APRIL 2006

- Monthly Progress Report March 2006
- Develop data base for upcoming FS for OU-3 (Feeder Creek/Middle Fork of Little Beaver Creek)
- MFLBC Flood plain sampling

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## TABLE 1 NEASE CHEMICAL SITE, SALEM, OHIO RI/FS SCHEDULE

DATE	TASK/ACTIVITY/DELIVERABLE/MILESTONE
	Documentation of the Site Activities through July 31, 2004 can be reviewed in the July 2004 Monthly Progress Report
August 30, 2004	US EPA Region V/ OEPA approve Endangerment Assessment
September 1, 2004	Draft Feasibility Study (OU-2) submitted to the agencies for review
September 9, 2004	Submit Monthly Progress Report
September 13, 2004	Submit Final Revision to Endangerment Assessment
October 8, 2004	Submit Monthly Progress Report
November 10, 2004	Submit Monthly Progress Report
November 22, 2004	Received Agencies' comments for draft FS (OU-2)
December 10, 2004	Submit Monthly Progress Report
January 10, 2005	Submit Monthly Progress Report
February 10, 2005	Submit Monthly Progress Report
March 1, 2005	Final Draft Feasibility Study (OU-2) submitted to agencies for review
March 4, 2005	Submit Monthly Progress Report
April 8, 2005	Submit Monthly Progress Report
April 21, 2005	US EPA Region V/OEPA approve Final Feasibility Study for OU-2
May 9, 2005	Submit Monthly Progress Report
May 31, 2005	US EPA Region V published the Proposed Remedial Action the OU-2 (onsite)
June 9, 2005	Submit Monthly Progress Report
July 8, 2005	Submit Monthly Progress Report
August 10, 2005	Submit Monthly Progress Report
Aug. 1 – 15, 2005	MFLBC – Reconnaissance of sediment bodies
September 9, 2005	Submit Monthly Progress Report
September 29, 2005	US EPA Region V signs Final Record of Decision for OU-2
October 10, 2005	Submit Monthly Progress Report
November 9, 2005	Submit Monthly Progress Report
December 8, 2005	Submit Monthly Progress Report
January 9, 2006	Submit Monthly Progress Report
February 8, 2006	Submit Monthly Progress Report
March 15, 2006	Submit Monthly Progress Report
April 10, 2006	Submit Monthly Progress Report
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## NEASE CHEMICAL SITE, SALEM, OHIO REMOVAL ACTION MONTHLY PROGRESS REPORT MARCH 2006

### 1.0 INTRODUCTION

This progress report has been prepared in accordance with Paragraph 14 of the "Order" section of the Administrative Order by Consent (AOC) Docket No. V-W-94-C-212, effective November 17, 1993, regarding a Removal Action for the Nease Chemical Site in Salem, Ohio. The report summarizes the major activities during the month along with investigation results and any problems encountered on the project. Activities planned for next month are also presented.

#### 2.0 SUMMARY OF ACTIVITIES PERFORMED

#### 2.1 PROJECT ACTIVITY

The activities that were initiated and/or completed during this month are described below. Activities were performed in accordance with the Removal Action AOC.

The agencies and ROC discussed modifications of the existing onsite groundwater treatment system to optimize the protection against spills. ROC summarized the modifications agreed by the parties in a letter to the agencies. The necessary scope of work is currently for bid at several contractors.

#### 2.2 WORK PLAN PREPARATION/REPORTS

No work plans/reports were submitted this period.

#### 2.3 FIELDWORK

#### 2.3.1 SITE INSPECTIONS

The results of the monthly site inspection carried out at the site on March 31, 2006 are shown in Attachment 1.

#### 2.3.2 MONTHLY WATER LEVEL MEASUREMENTS

The next, quarterly water level measurements will be conducted in May 2006.

#### 2.3.3 TREATMENT PLANT OPERATION

The treatment plant operated mostly normal throughout the month.

#### 2.4.1.1 **MEETINGS**

None

#### 3.0 VARIATIONS FROM THE APPROVED REMOVAL ACTION WORK PLAN

None

## 4.0 RESULTS OF INSPECTIONS, ENVIRONMENTAL SAMPLING, TESTS AND ANALYSES

Water monitoring samples were collected from the treatment plant on March 1, 2006 (see Attachments 2; Lab: Exygen Research/STL). The results of the mid-March sampling was not available for this report. It will be submitted with the April report. The next acute/chronic toxicity testing is planned for May 2006.

## 5.0 PROJECT SCHEDULE

The updated Work Plan schedule identifies completion and target dates for project activities.

#### 6.0 DIFFICULTIES ENCOUNTERED AND ACTION TAKEN TO RESOLVE PROBLEMS

As result of an OEPA site inspection in April 2004 and the overflow of the GWTP influent tank in June 2004 ROC has proposed some modification of the groundwater treatment system. US EPA Region V and OEPA approved the proposed changes. Golder, ROC's consultant, has submitted a detailed design that will be subject to the agencies' review. Final modifications were agreed on during a conference call on August 16, 2005. The results were summarized in a letter report to the agencies. Golder submitted bidding documents to several contractors

On February 18, 2006, the leachate collection system LC-2 had to be shutdown because of an apparent leak in the transfer pipe from the pump sump to the storage tank. The agencies were informed right-away. Several tests were conducted (i.e., functionality of the check-valves). After filling the discharge pipe with clean water, it appears that there is a leak right where the pipe starts at the pump sump. ROC has contracted Whan Construction for digging up the pipe in this area. The work was performed mid-March under supervision of ROC's consultants, Golder Associates, and Howell & Baird. The leak was located and successfully repaired. Pumping was started again on March 22, 2006. The recovered soil and the protective clothe were placed in drums and will be disposed off at a licensed facility.

#### 7.0 PERSONNEL CHANGES

No personnel changes occurred during month.

#### 8.0 TYPES AND QUANTITIES OF REMOVED MATERIALS

For the period from March 1 through 31, 2006 the following material was removed:

- 5,000 gallons of leachate and/or backwash water were disposed offsite at a licensed treatment facility.
- Approximately 105,159.90 gallons were pumped from Leachate Collection System 1 (LCS-1) (total for LCS-1 =18,352,806 gal).
- Approximately 6,649 gallons were pumped from Leachate Collection System 2 (LCS-2) (total for LCS-2 = 1,409,437 gal).
- 7,595 gallons of water were pumped from Pond 1 (total for the pond = 969,679 gallons).
- Approximately 11 pounds of organic compounds were removed during pumping (estimate based on average VOC/SVOC concentrations for each source).

## 9.0 ANTICIPATED PROJECT ACTIVITIES FOR APRIL 2006

Removal Action activities scheduled for the upcoming month include on-going implementation of the approved Removal Action Work Plan involving:

- Collection of groundwater from the existing collection systems LCS-1, LCS-2 and Pond 1.
- Implementation of planned treatment plant modifications
- Monthly Progress Report for March 2006

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## TABLE 1 NEASE CHEMICAL SITE, SALEM, OHIO REMOVAL ACTION SCHEDULE

DATE	TASK/ACTIVITY/DELIVERABLE/MILESTONE
	Documentation of the Site Activities through July 31, 2004 can be reviewed in the July 2004 Monthly Progress Report
September 9, 2004	Submit Monthly Progress Report
October 8, 2004	Submit Monthly Progress Report
November 10, 2004	Submit Monthly Progress Report
December 10, 2004	Submit Monthly Progress Report
January 10, 2005	Submit Monthly Progress Report
February 10, 2005	Submit Monthly Progress Report
March 4, 2005	Submit Monthly Progress Report
April 8, 2005	Submit Monthly Progress Report
May 9, 2005	Submit Monthly Progress Report
June 9, 2005	Submit Monthly progress Report
July 8, 2005	Submit Monthly Progress Report
August 10, 2005	Submit Monthly Progress Report
September 9, 2005	Submit Monthly Progress Report
October 10, 2005	Submit Monthly Progress Report
November 9, 2005	Submit Monthly Progress Report
December 8, 2005	Submit Monthly Progress Report
January 9, 2006	Submit Monthly Progress Report
February 8, 2006	Submit Monthly Progress Report
March 15, 2006	Submit Monthly Progress Report
April 10, 2006	Submit Monthly Progress Report
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## **ATTACHMENT 1**

## RESULTS OF MONTHLY SITE INSPECTION NEASE CHEMICAL SITE, SALEM, OHIO MARCH 2006

## **ATTACHMENT 2**

WATER SAMPLING RESULTS – MARCH , 2006 NEASE CHEMICAL SITE, SALEM, OHIO (TO BE SUBMITTED WITH NEXT MONTH'S REPORT)

## SITE INSPECTION FORM RUETGERS-NEASE CORPORATION Nease Site, Salem, Ohio

Date of Inspection: 3-31-06		<del></del>	
Entry Time: 1030 HRS.	Exit Time: _	1430 HRS.	
Weather: SUNNY + WARM 60°	•	-	
Inspector's Name: DENNIS L. LANE			
•	and Baird, Inc		

## INSPECTION RESULTS

SPECIFIC OBSERVATIONS:

Structures

(Responses: S = Satisfactory U = Unsatisfactory Yes/No Levels Measured in Feet, N/A = Not Applicable)

	Pump	Quick Connect	Water Level	Berm Erosion	Visible Leakage
Leachate Collection System 1 (LCS-1)	S	S	4,98	N/A	No
Leachate Collection System 2 (LCS-2)	S	S	11.64	N/A	No -
Pond 1 Pumphouse	S	S	9.31	N/A	No
Pond 1 Berm	N/A	N/A	N/A	No	No
Pond 2 Embankment	N/A	N/A	N/A	No	No
Exclusion Area A Embankment	N/A	N/A	N/A	No	No
Storage Tank	N/A	5	6.20	N/A	No
Other (specify)					

## SPECIFIC OBSERVATIONS:

## Sediment Barriers

Condition of Sediment Barriers

Barrier Description	Fabric Intact?	By Passing	Zu a Is Maintenance Necessary?
Sediment Control Structure 1	YES	No	No
Sediment Control Structure 2	YES	No	No
Fabric Barrier 2	YES	No	No
Fabric Barrier 3	YES	No	No
Fabric Barrier 4	YES	No	No
Fabric Barrier 5	YES	No	No
Fabric Barrier 8	YES	No	No
Fabric Barrier 9	YES	No	No
Fabric Barrier 10	YES	No	No
Rock Barrier 1	YES	No	No
Rock Barrier 2	YES	No	No
Pond 7 - North	YES	No	No
Pond 7 - South	YES	No	No

SPECIFIC OBSERVATIONS:

Seeps (if present, use more forms, as necessary)

Seep.ID (yr-month-#))	Located on Map	Areal Extent	Magnitude (flow? ponding?)
94-7-1	YES	20	NON-FLOWING SEEP
96-8-2	YES	20	NON-FLOWING SEEP NON-FLOWING SEEP

Note Seep ID # equal the "nth' observed seep during the yr-month in question

ADDITIONAL OBSERVATION OR REMARKS:	
Inspector's Name: DENNIS L. LRNE	,
Inspector's Signature: Lennis L. Lane	
Date: 3-31-06	

CRANE-DEMING COMPANY CPANE DEMING SWAMP S1



## **Analytical Report**

## **Rütgers Organics Corporation**

Exygen Research Project:

L7674

## **Testing Laboratory**

Exygen Research 3058 Research Drive State College, PA 16801

## Requester

Dr. Rainer Domalski Rutgers Organics Corporation 201 Struble Road State College, PA 16801





# Sample Submittal

Please fax this form before sending samples.

Please send samples to Exygen's shipping and receiving address: 3048 Research Drive, State College, PA 16801 T: 814.272.1039 • F: 814.272.1019

<b>Exygen Contact:</b>		<del></del> -				1.272.103	7 1.014.272	.1015		
Send Report To: Company:	GERS ()	RCAS	vies Cor	P.		Turnaround time (TAT) requirements:  Results Due Date:				
Address: _201		_			Pr	Preliminary Results Format:  Verbal  Email  Fax				
City, State, ZIP: S		7	^	6801	Re	Report Due Date:				
Attention: De.	^		•			torage c	onditions	Safety information		
Phone #: (814						Room ter Refrigera	nperature tor	Special handling:		
Fax #:	,				🗅	Freezer		☐ MSDS attached		
Study/Job #: SALEM, OHIO SITE Signature/Date: Dennis L. Jana 3-1-06						Ultra-Lov Desiccate		☐ Controlled substance:		
						Lighting readility (°C/	•	☐ HAZARDS:		
Signature/Date:	leunis	Plan	3-1	-06				Please fill in the diamond		
Printed Name:	DENNIS	L. C	ANE		St 	ability time	e period:	HMIS/NFPA (0-4) f appropriate		
- Client Descrip			Lot/ Control #	Amt. Se Weigh	ent/ # o	f es - Matrix	Date & —Time	Tests - Requested		
1 INFLUENT	- 3-1-	06			3	WATE	3-1-06 e 1200	AMMONIA+PHOSPHORUS		
2 OUTFALL	3-1-0	26			3		3-1-06	NITENTE NITENTE AMMENIA + PHOSPHORUS NITENTE		
3						3070124	7203	NITRATE		
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V0002836-1					,			Administrative Form		



**Exvgen Contact:** 

# **Sample Submittal**

Please fax this form before sending samples.
Please send samples to Exygen's shipping and receiving address:
3048 Research Drive, State College, PA 16801
T: 814.272.1039 • F: 814.272.1019

Send Report To:	Turnaround time (TAT)	requirements:				
Send Report To:  Company: EXGEN REServen	Results Due Date:					
Address:	Preliminary Results Format:  Verbal  Email  Fax					
City, State, ZIP:	Report Due Date:					
Attention: Teff 0:55	Storage conditions	Safety information				
Phone #:	Room temperature	Special handling:				
Fax #:	☐ Freezer☐ Ultra-Low freezer	Controlled substance:				
Email:	☐ Desiccated☐ Lighting required					
Study/Job #:	Stability (°C/%RH):	☐ HAZARDS:				
Signature/Date:		Please fill in the diamond				
Printed Name:	Stability time period:	HMIS/NFPA (0-4) if appropriate				
Client (D) to the Very west to Description of the Control of North	Not Main. Date S. Bottles. Anne.	lests				
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## Client Sample ID: C0156734

## General Chemistry

Lot-Sample #...: C6C070322-001

Work Order #...: HORRR

Date Sampled...: 03/01/06

Date Received..: 03/07/06

Matrix..... WATER

PARAMETER Ammonia Nitrogen	RESULT 1.0	RL 0.10 lution Pacto	UNITS mg/L or: 1		350.1 Time.: 10:42	PREPARATION- ANALYSIS DATE 03/13-03/14/06 MS Run #	
Nitrate-Nitrite	ND	0.10	mg/L	MCAWW	353.2	03/09/06	6068046
	Di	lution Facto	or: 1	Analysis	Time: 08:35	MS Run #	.: 6068034
Total phosphorus	ND	0.10	mg/L	MCAWW	365.2	03/15/06	6074192
•• •	Di	lution Facto	or: 1	Analysis	Time: 00:00	MS Run #	: 6074277

## Client Sample ID: C0156735

## General Chemistry

Lot-Sample #...: C6C070322-002

Work Order #...: HORR3

Date Sampled...: 03/01/06

Date Received..: 03/07/06

Matrix....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- PREP ANALYSIS DATE BATCH #
Ammonia Witrogen	0.96	0.10 ution Facto	mg/L or: 1	MCANW 350.1 Analysis Time: 10:44	03/13-03/14/06 6072050 MS Run #: 6073020
Nitrate-Nitrite	ND	0.10 ution Facto	mg/L or: 1	MCAWW 353.2 Analysis Time: 08:40	03/09/06 6068046 MS Rum #: 6068034
Total phosphorus	NI)	0.10 ution Facto	mg/L or: 1	MCAWW 365.2 Analysis Time: 00:00	03/15/06 6074192 MS Run #: 6074277

## Client Sample ID: C0156736

## General Chemistry

Lot-Sample #...: C6C070322-003 Work Order #...: HORR4

Date Sampled...: 03/01/06 Date Received..: 03/07/06

PARAMETER	RESULT	RL	UNITS	METHO	0	PREPARATION- ANALYSIS DATE	PREP BATCH #
Ammonia Nitrogen	<b>0 98</b>	0.10 Ilution Fact	mg/L or: 1		350.1 Time: 10:50	03/13-03/14/06 MS Run #	
Nitrate-Nitrite	NI)	0.10 ilution Fact	mg/L or: 1		353.2 Time: 08:41	03/09/06 MS Run #	6068046 .: 6068034
Total phosphorus	NI)	0.10	mg/L or: 1		365.2 Time: 00:00	03/15/06 MS Run #	6074192 .: 6074277

## Client Sample ID: C0156737

## General Chemistry

Lot-Sample #...: C6C070322-004

Work Order #...: HORR5

Date Sampled...: 03/01/06

Date Received..: 03/07/06

Matrix....: WATER

PARAMETER	RESULT	RL	UNITS	METHO	D	PREPARATION- ANALYSIS DATE	PREP BATCH #
Ammonia Nitrogen	1.2	0.10	mg/L or: 1		350.1 Time: 10:52	03/13-03/14/06 MS Run #	
Nitrate-Nitrite	ND	0.10 ution Facto	mg/L or: 1		353.2 Time: 08:43	03/09/06 MS Run #	6068046 : 6068034
Total phosphorus	NI)	0.10 ution Facto	mg/L or: 1		365.2 Time: 00:00	03/15/06 MS Run #	6074192

## Client Sample ID: C0156738

## General Chemistry

Lot-Sample #...: C6C070322-005

Work Order #...: HORR6

PARAMETER	RESULT	RL	UNITS	METHO	<u> </u>	PREPARATION- ANALYSIS DATE	PREP BATCH #
Ammonia Nitrogen	1.2	0.10 Dilution Pacto	mg/L or: 1		350.1 Time: 10:54	03/13-03/14/06 MS Run #	
Nitrate-Nitrite	כנא	0.10 Dilution Facto	mg/L or: 1	MCAWW Analysis	353.2 Time: 08:49	03/09/06 MS Run #	6068046
Total phosphorus	כות	0.10 Dilution Facto	mg/L or: 1		365.2 Time: 00:00	03/15/06 MS Run #	6074192

## Client Sample ID: C0156739

## General Chemistry

Lot-Sample #...: C6C070322-006

NI)

0.10

Dilution Factor: 1

Date Sampled...: 03/01/06

Total phosphorus

Work Order #...: HORR7

Date Received..: 03/07/06

MCAWW 365.2

Analysis Time..: 00:00

Matrix....: WATER

MS Run #..... 6074277

03/15/06

PARAMETER	RESULT	<u>RL</u>	UNITS	METHOD		EP
Ammonia Nitrogen	0.92	0.10	mg/L	MCAWW 350.1	03/13-03/14/06 60	72050
	, D;	ilution Fac	tor: 1	Analysis Time: 10:5	5 MS Run #: 6	073020
Nitrate-Nitrite	NID .	0.10	mg/L	MCAWW 353.2	03/09/06 60	68046
·	מ	ilution Fac	tor: 1	Analysis Time: 08:5	0 MS Run # 6	068034

mg/L

## METHOD BLANK REPORT

## General Chemistry

Client Lot #...: C6C070322

Matrix....: WATER

		REPORTING	•	PREPARATION-	PREP
PARAMETER	RESULT	LIMIT UNITS M	ETHOD	ANALYSIS DATE	BATCH #
Ammonia Nitrogen		Work Order #: H066ClAA	MB Lot-Sample #:	C6C130000-050	
	ND	0.10 mg/L MG	CAWW 350.1	03/13-03/14/06	6072050
		Dilution Factor: 1	*	* *	
*		Analysis Time: 10:35		,	
Nitrate-Nitrite		Work Order #: HOW6Q1AA M	MB Lot-Sample #:	C6C090000-046	
	ND	0.10 mg/L MG	CAWW 353.2	03/09/06	6068046
		Dilution Factor: 1	•		
		Analysis Time: 08:28			
Total phosphorus		Work Order #: H1AL91AA N	MB Lot-Sample #:	A6C150000-192	-
-	ND	0.10 mg/L MG	CAWW 365.2	03/15/06	6074192
		Dilution Factor: 1			
		Analysis Time: 00:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.